

INDOOR & RADIOLOGICAL HEALTH BRANCH

EBERLINE ANALYTICAL CORPORATION
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Toll Free (800) 841-5487
www.eberlineservices.com

2011 OCT 31 A 9:17

October 26, 2011

Mr. Adam Teekell State of Hawaii – Department of Health 591 Ala Moana Blvd. Honolulu, HI 96813

Ref: Water Sampling

Eberline Analytical S110083-8296

Dear Mr. Teekell:

Enclosed are results from the analyses of four water samples received at Eberline Analytical on October 18, 2011. The samples were analyzed for gamma emitting radionuclides. A "U" in the results column indicates that the nuclide was not detected greater than the indicated minimum detectable activity (MDA). No problems were encountered during the processing of the samples.

Regards,

Joseph Verville

Client Services Manager

NJV/mw

Enclosure: Report

Eberline Analytical

ANALYSIS RESULTS

SDG <u>8296</u>
Work Order <u>S110083-01</u>
Received Date <u>10/18/11</u>

Client STATE HAWAII
Contract CREDIT CARD

Matrix WATER

Client	Lab						
Sample ID	Sample ID	Collected	Analyzed	Nuclide	Results ± 20	Units	MDA
SAMPLE #1	8296-001	10/12/11	10/21/11	Na-22	U	pCi/L	4.46
			10/21/11	K-40	U	pCi/L	53.1
			10/21/11	Mn-54	U	pCi/L	4.80
			10/21/11	Co-57	ŭ	pCi/L	2.44
			10/21/11	Co-58	υ	pCi/L	4.38
			10/21/11	Co-60	υ	pCi/L	4.72
			10/21/11	Ba-133	ט	pCi/L	4.58
			10/21/11	Cs-134	υ	pCi/L	5.49
			10/21/11	Cs-137	υ	pCi/L	4.36
			10/21/11	Eu-152	σ	pCi/L	10.6
			10/21/11	Eu-154	σ	pCi/L	13.2
			10/21/11	Ra-226	υ	pCi/L	10.5
			10/21/11	Ra-228	υ	pCi/L	21.3
			10/21/11	Th-228	σ	pCi/L	6.82
			10/21/11	Th-232	υ	pCi/L	21.3
			10/21/11	U-238	υ	pCi/L	551
			10/21/11	Am-241	υ	pCi/L	5.46
			10/21/11	Am-243	ū	pCi/L	3.57
			10/21/11	I-131	υ	pCi/L	8.62
SAMPLE #2	8296-002	10/12/11	10/21/11	Na-22	U	pCi/L	7.72
			10/21/11	K-40	υ	pCi/L	153
			10/21/11	Mn-54	σ	pCi/L	7.44
			10/21/11	Co-57	σ	pCi/L	5.33
			10/21/11	Co-58	ū	pCi/L	6.90
			10/21/11	Co-60	υ	pCi/L	7.35
			10/21/11	Ba-133	υ	pCi/L	8.46
			10/21/11	Cs-134	σ	pCi/L	8.39
			10/21/11	Cs-137	U	pCi/L	8.10
			10/21/11	Eu-152	U	pCi/L	19.8
			10/21/11	Eu-154	σ	pCi/L	22.8
			10/21/11	Ra-226	Ū	pCi/L	15.8
			10/21/11	Ra-228	U	pCi/L	34.5
			10/21/11	Th-228	U	pCi/L	12.0
			10/21/11	Th-232	υ	pCi/L	34.5
			10/21/11	U-238	U	pCi/L	945
			10/21/11	Am-241	Ū	pCi/L	57.1
			10/21/11	Am-243	U	pCi/L	12.2
			10/21/11	I-131	υ	pCi/L	16.0

Certified by 20 Report Date 10/26/11 Page 1

Eberline Analytical

ANALYSIS RESULTS

SDG <u>8296</u>
Work Order <u>S110083-01</u>
Received Date <u>10/18/11</u>

Client STATE HAWAII
Contract CREDIT CARD

Matrix WATER

Sample ID		Lab						
10/21/11 K-40 U pCi/L			Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA
10/21/11 K-40 U	PLE #3	8296-003	10/12/11	10/21/11	Na-22	U	pCi/L	4.52
10/21/11 Co-57	"-			10/21/11	K-40	U	pCi/L	61.9
10/21/11 Co-58				10/21/11	Mn-54	U	pCi/L	4.39
10/21/11 Co-60				10/21/11	Co-57	U	pCi/L	2.85
10/21/11 8a-133 U pCi/L				10/21/11	Co-58	σ	pCi/L	4.71
10/21/11 Cs-134 U pCi/L				10/21/11	Co-60	U	pCi/L	4.96
10/21/11 Cs-137 U PCi/L				10/21/11	Ba-133	U	pCi/L	4.50
SAMPLE #001 8296-004 10/13/11 10/21/11 Na-22 U pci/L 10/21/11 Co-57 U pci/L 10/21/11 Co-58 U pci/L 10/21/11 Co-58 U pci/L 10/21/11 Co-60 U pci/L 10/21/11 Co-60 U pci/L 10/21/11 Co-137 U pci/L 10/21/11 Co-60 U pci/L 10/21/11 Co-137 U pci/L 10/21/11 Th-228 U pci/L 10/21/11 Th-228 U pci/L 10/21/11 Th-232 U pci/L 10/21/1				10/21/11	Cs-134	ט	pCi/L	5.60
				10/21/11	Cs-137	U	pCi/L	4.41
10/21/11 Ra-226 U pCi/L				10/21/11	Eu-152	υ	pCi/L	12.2
10/21/11 Ra-228				10/21/11	Eu-154	U	pCi/L	13.4
SAMPLE #001 8296-004 10/13/11 10/21/11 Na-22 U pci/L 10/21/11 Th-238 U pci/L 10/21/11 Am-241 U pci/L 10/21/11 I-131 U pci/L 10/21/11 I-131 U pci/L 10/21/11 I-131 U pci/L 10/21/11 K-40 U pci/L 10/21/11 Mn-54 U pci/L 10/21/11 Co-57 U pci/L 10/21/11 Co-58 U pci/L 10/21/11 Co-60 U pci/L 10/21/11 Co-60 U pci/L 10/21/11 Co-60 U pci/L 10/21/11 Co-137 U pci/L 10/21/11 Co-137 U pci/L 10/21/11 Eu-152 U pci/L 10/21/11 Eu-154 U pci/L 10/21/11 Ra-226 U pci/L 10/21/11 Ra-226 U pci/L 10/21/11 Ra-226 U pci/L 10/21/11 Ra-226 U pci/L 10/21/11 Ra-228 U pci/L 10/21/11 Th-232 U pci/L				10/21/11	Ra-226	υ	pCi/L	9.16
SAMPLE #001 8296-004 10/13/11 10/21/11 Na-22 U pci/L 10/21/11 Na-243 U pci/L 10/21/11 I-131 U pci/L 10/21/11 K-40 U pci/L 10/21/11 Mn-54 U pci/L 10/21/11 Co-57 U pci/L 10/21/11 Co-58 U pci/L 10/21/11 Co-60 U pci/L 10/21/11 Ba-133 U pci/L 10/21/11 Cs-134 U pci/L 10/21/11 Cs-134 U pci/L 10/21/11 Cs-137 U pci/L 10/21/11 Eu-152 U pci/L 10/21/11 Eu-152 U pci/L 10/21/11 Ra-226 U pci/L 10/21/11 Ra-226 U pci/L 10/21/11 Ra-226 U pci/L 10/21/11 Ra-226 U pci/L 10/21/11 Ra-228 U pci/L 10/21/11 Th-232 U pci/L				10/21/11	Ra-228	υ	pCi/L	18.9
10/21/11 U-238 U pCi/L				10/21/11	Th-228	υ	pCi/L	6.92
10/21/11				10/21/11	Th-232	υ	pCi/L	18.9
10/21/11 Am-243 U pCi/L				10/21/11	U-238	U	pCi/L	572
SAMPLE #001 8296-004 10/13/11 10/21/11 Na-22 U pci/L 10/21/11 K-40 U pci/L 10/21/11 Mn-54 U pci/L 10/21/11 Co-57 U pci/L 10/21/11 Co-58 U pci/L 10/21/11 Co-60 U pci/L 10/21/11 Ba-133 U pci/L 10/21/11 Cs-134 U pci/L 10/21/11 Cs-134 U pci/L 10/21/11 Eu-152 U pci/L 10/21/11 Eu-152 U pci/L 10/21/11 Ra-226 U pci/L 10/21/11 Ra-226 U pci/L 10/21/11 Ra-228 U pci/L 10/21/11 Th-228 U pci/L				10/21/11	Am-241	ט	pCi/L	16.5
SAMPLE #001 8296-004 10/13/11 10/21/11 Na-22 U pCi/L 10/21/11 K-40 U pCi/L 10/21/11 Mn-54 U pCi/L 10/21/11 Co-57 U pCi/L 10/21/11 Co-58 U pCi/L 10/21/11 Co-60 U pCi/L 10/21/11 Cs-134 U pCi/L 10/21/11 Cs-137 U pCi/L 10/21/11 Eu-152 U pCi/L 10/21/11 Eu-154 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-228 U pCi/L 10/21/11 Th-232 U pCi/L				10/21/11	Am-243	บ	pCi/L	5.49
10/21/11 K-40 U pCi/L				10/21/11	I-131	υ	pCi/L	8.64
10/21/11 K-40 U pCi/L 10/21/11 Mn-54 U pCi/L 10/21/11 Co-57 U pCi/L 10/21/11 Co-58 U pCi/L 10/21/11 Co-60 U pCi/L 10/21/11 Ba-133 U pCi/L 10/21/11 Cs-134 U pCi/L 10/21/11 Cs-137 U pCi/L 10/21/11 Eu-152 U pCi/L 10/21/11 Eu-154 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-228 U pCi/L 10/21/11 Th-228 U pCi/L	PLE #001	8296-004	10/13/11	10/21/11	Na-22	υ	pCi/L	4.96
10/21/11 Co-57 U pCi/L 10/21/11 Co-58 U pCi/L 10/21/11 Co-60 U pCi/L 10/21/11 Ba-133 U pCi/L 10/21/11 Cs-134 U pCi/L 10/21/11 Cs-137 U pCi/L 10/21/11 Eu-152 U pCi/L 10/21/11 Eu-154 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Th-228 U pCi/L				10/21/11	K-40	σ	pCi/L	62.8
10/21/11 Co-58 U pCi/L 10/21/11 Co-60 U pCi/L 10/21/11 Ba-133 U pCi/L 10/21/11 Cs-134 U pCi/L 10/21/11 Cs-137 U pCi/L 10/21/11 Eu-152 U pCi/L 10/21/11 Eu-154 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Th-228 U pCi/L				10/21/11	Mn-54	υ	pCi/L	4.58
10/21/11 Co-60 U pCi/L 10/21/11 Ba-133 U pCi/L 10/21/11 Cs-134 U pCi/L 10/21/11 Cs-137 U pCi/L 10/21/11 Eu-152 U pCi/L 10/21/11 Eu-154 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-228 U pCi/L 10/21/11 Th-228 U pCi/L				10/21/11	Co-57	σ	pCi/L	2.64
10/21/11 Ba-133 U pCi/L 10/21/11 Cs-134 U pCi/L 10/21/11 Cs-137 U pCi/L 10/21/11 Eu-152 U pCi/L 10/21/11 Eu-154 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-228 U pCi/L 10/21/11 Th-228 U pCi/L 10/21/11 Th-232 U pCi/L				10/21/11	Co-58	Ω	pCi/L	4.84
10/21/11 Cs-134 U pCi/L 10/21/11 Cs-137 U pCi/L 10/21/11 Eu-152 U pCi/L 10/21/11 Eu-154 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-228 U pCi/L 10/21/11 Th-228 U pCi/L 10/21/11 Th-232 U pCi/L				10/21/11	Co-60	ū	pCi/L	4.94
10/21/11 Cs-137 U pCi/L 10/21/11 Eu-152 U pCi/L 10/21/11 Eu-154 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-228 U pCi/L 10/21/11 Th-228 U pCi/L 10/21/11 Th-232 U pCi/L				10/21/11	Ba-133	Ω	pCi/L	4.68
10/21/11 Eu-152 U pCi/L 10/21/11 Eu-154 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-228 U pCi/L 10/21/11 Th-228 U pCi/L 10/21/11 Th-232 U pCi/L				10/21/11	Cs-134	σ	pCi/L	6.28
10/21/11 Eu-154 U pCi/L 10/21/11 Ra-226 U pCi/L 10/21/11 Ra-228 U pCi/L 10/21/11 Th-228 U pCi/L 10/21/11 Th-232 U pCi/L				10/21/11	Cs-137	U	pCi/L	4.58
10/21/11 Ra-226 U pCi/L 10/21/11 Ra-228 U pCi/L 10/21/11 Th-228 U pCi/L 10/21/11 Th-232 U pCi/L				10/21/11	Eu-152	υ	pCi/L	12.8
10/21/11 Ra-228 U pCi/L 10/21/11 Th-228 U pCi/L 10/21/11 Th-232 U pCi/L				10/21/11	Eu-154	σ	pCi/L	14.7
10/21/11 Th-228 U pCi/L 10/21/11 Th-232 U pCi/L				10/21/11	Ra-226	υ	pCi/L	21.0
10/21/11 Th-232 U pCi/L				10/21/11	Ra-228	σ	pCi/L	19.7
10/22/11				10/21/11	Th-228	υ	pCi/L	7.80
10/21/11 U-238 U pCi/L				10/21/11	Th-232	υ	pCi/L	32.4
10/21/11 0-230				10/21/11	U-238	υ	pCi/L	508
10/21/11 Am-241 U pCi/L						υ	pCi/L	5.97
10/21/11 Am-243 U pCi/L						υ	pCi/L	8.45
10/21/11 I-131 U pCi/L						υ	pCi/L	8.22

Certified by
Report Date <u>10/26/11</u>
Page 2

Eberline Analytical

SDG <u>8296</u> Work Order <u>S110083-01</u> Client STATE HAWAII

Contract CREDIT CARD

Received Date 10/18/11

Matrix WATER

LCS						
8296-005	Co-60	282 ± 7.5	pCi/Smpl	277	3.67	102% recovery
	Cs-137	309 ± 6.9	pCi/Smpl	297	4.50	104% recovery
BLANK						
8296-006	Na-22	U	pCi/Smpl	NА	1.95	<mda< td=""></mda<>
	K-40	ט	pCi/Smpl	NA	46.1	<mda< td=""></mda<>
	Mn-54	υ	pCi/Smpl	NA	1.92	<mda< td=""></mda<>
	Co-57	Ū	pCi/Smpl	AA	1.69	<mda< td=""></mda<>
	Co-58	υ	pCi/Smpl	NA	2.08	<mda< td=""></mda<>
	Co-60	υ	pCi/Smpl	NA	2.10	<mda< td=""></mda<>
	Ba-133	U	pCi/Smpl	NA	2.68	<mda< td=""></mda<>
	Cs-134	υ	pCi/Smpl	NA	2.91	<mda< td=""></mda<>
	Cs-137	U	pCi/Smpl	NA	2.31	<mda< td=""></mda<>
	Eu-152	U	pCi/Smpl	NA	6.58	<mda< td=""></mda<>
	Eu-154	U	pCi/Smpl	NA	5.80	<mda< td=""></mda<>
	Ra-226	υ	pCi/Smpl	NA	11.6	<mda< td=""></mda<>
	Ra-228	σ	pCi/Smpl	NA	10.9	<mda< td=""></mda<>
	Th-228	ט	pCi/Smpl	NA	4.54	<mda< td=""></mda<>
	Th-232	υ	pCi/Smpl	NA	10.9	<mda< td=""></mda<>
	U-238	Ū	pCi/Smpl	NA	242	<mda< td=""></mda<>
	Am-241	ŭ	pCi/Smpl	NA	8.73	<mda< td=""></mda<>
	Am-243	ŭ	pCi/Smpl	NA	6.01	<mda< td=""></mda<>
	I-131	υ	pCi/Smpl	NA	2.28	<mda< td=""></mda<>
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Certified by 26W

Report Date <u>10/26/11</u>

Page 3



RICHMOND, CA LABORATORY Chain of Custody

Eberline Services, Inc. - Richmond, CA Laboratory COMPANY: Harry - POH SAMPLERS SIGNATURE ADDRESS 59/ Ala Moana Blud, CLIENT State of Harray - Dept. of Health COMPANY: PROJECT h/afr 5) RELINQUISHED BY / DATE: 1) RELINQUISHED BY / DATE: SAMPLE NO 10/14/1 Honolulu, HI 96813 10/12 1130 Wayman, HI DATE Sa-pla TIME 6) RECEIVED BY / DATE: 2) RECEIVED BY / DATE: COMPANY: LOCATION 2030 Wright Avenue 11 3319 The state Gamma Spec 7) RELINQUISHED BY / DATE COMPANY: 3) RELINQUISHED BY / DATE: COMPANY: P. O. Box 4040 Purchase Order No. Credit Cerol
PARAMETERS Richmond, CA 94804-0040 Tel (510) 235-2633 8) RECEIVED BY / DATE COMPANY: 4) RECEIVED BY / DATE: COMPANY: Janton Cartino SAMPLE TYPE OR MATRIX Fax (510) 235-0438 SPECIAL SHIPMENT, HANDLING STORAGE REQUIREMENTS, OR Method of Shipment: Total No. of Containers 0 7 m Z - > - Z O O # POSSIBLE HAZARDS VOLUMES, SPECIAL OR ADDITIONAL TEST OBSERVATIONS, COMMENTS, TAT (in days) C PAGE Q H



RICHMOND, CA LABORATORY Chain of Custody PAGE 유

235-0438	-2633 Fax (510) 235-0438	040 Tel (510) 235-2633	P. O. Box 4040 Richmond, CA 94804-0040	boratory 2030 Wright Avenue	Eberline Services, Inc Richmond, CA Laboratory
		COMPANY:	COMPANY:	COMPANY:	COMPANY:
POSSIBLE HAZARDS	/DATE	8) RECEIVED BY / DATE	7) RELINQUISHED BY / DATE	6) RECEIVED BY / DATE:	
SPECIAL SHIPMENT, HANDLING, STORAGE REQUIREMENTS, OR		COMPANY:	COMPANY:	COMPANYERBERLENE	=
Method of Shipment:				Thus 10/18/11	Min Sall (1) (a)
Total No. of Containers:	/DATE:	4) RECEIVED BY / DATE:	3) RELINQUISHED BY / DATE:	2) RECEIVED BY / DATE:	
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				- 1	- 1
	Donated water	Ó		Makanon H	10/,
	MATRIX		Go	LOCATION	SAMPLE NO DATE TIME
R VOLUMES, SPECIAL OR S ADDITIONAL TEST	SAMPLE TYPE OR		inny		SAMPLERS SIGNATURE:
			Spe	live	PROJECT Water Same
→ Z				6813	Honolulu, HI 9
# C TAT (in days) C (t cont	Purchase Order No. Craft Co	Blud Health	CLIENT State of Havan - Dept of Halth
					<i>\</i>



RICHMOND, CA LABORATORY Chain of Custody

8246

CLIENT State of Hower - Dat. of SAMPLERS SIGNATURE ADDRESS 59/ Ala Moana Blud PROJECT Water Samply Eberline Services, Inc. - Richmond, CA Laboratory 2030 Wright Avenue COMPANY: COMPANY: Hours - 10/+ 1) RELINQUISHED BY / DATE: 5) RELINQUISHED BY / DATE: SAMPLENG Honolulu, HI 96813 10/14/11 7 ogons Harami'ulu, HI TIME 6) RECEIVED BY / DATE: 2) RECEIVED BY / DATE: COMPANY: COMPANY: ETAETULNE COMPANY: LOCATION 3) RELINQUISHED BY / DATE: Gamma Spec (7) RELINQUISHED BY / DATE COMPANY: P. O. Box 4040 Purchase Order No. Credit Court Richmond, CA 94804-0040 Tel (510) 235-2633 8) RECEIVED BY / DATE 4) RECEIVED BY / DATE: COMPANY: COMPANY: SAMPLE TYPE OR MATRIX Fax (510) 235-0438 Method of Shipment: **ω** ΣΠΖ-> ⊢ΖΟΟ# SPECIAL SHIPMENT, HANDLING, STORAGE REQUIREMENTS, OR Total No. of Containers POSSIBLE HAZARDS OBSERVATIONS, COMMENTS, VOLUMES, SPECIAL OR ADDITIONAL TEST TAT (in days) 2 PAGE 유

COMPANY: Whater Branch Eberline Services, Inc. - Richmond, CA Laboratory COMPANY: 5) RELINQUISHED BY / DATE: CLIENT State of Hawail-Dept. of Har PROJECT Water ADDRESS 59/ Ala Mogna Blux. E BERLINE Survices MPLERS SIGNATURE: SAMPLE NO 001 Honolule, Water Brandy 10/13/1 DATE 1030am National Book Catcher TIME COMPANY: 6) RECEIVED BY / DATE: 2) RECEIVED BY / DATE: COMPANY: EPREPULLE COMPANY: (Mey 10/18/1) 2030 Wright Avenue LOCATION COMPANY: 7) RELINQUISHED BY / DATE 3) RELINQUISHED BY / DATE: P. O. Box 4040 Gama RICHMOND, CA LABORATORY Purchase Order No. Credit
PARAMETERS Chain of Custody Richmond, CA 94804-0040 Tel (510) 235-2633 8) RECEIVED BY / DATE 4) RECEIVED BY / DATE: COMPANY: COMPANY: Cond SAMPLE TYPE OR MATRIX 8296 Fax (510) 235-0438 Method of Shipment: FEDEX Total No. of Containers: STORAGE REQUIREMENTS, OR POSSIBLE HAZARDS **ØZMZ->-|ZOO**# OBSERVATIONS, COMMENTS, VOLUMES, SPECIAL OR ADDITIONAL TEST TAT (in days) 21

	ER	LINE
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RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

Client	STATA	OF HAW	411/DOH	city	ONOLULU ER SAMP	State	41	
Date/Т	ime recei	red 0 18 11	0930 COC NO	JAW JA	ER SAMP	UNG		-
Comei	ner LD. N	proxe	> Requested	TAT (Days)	7 P:0. R	ceived Yes [1 Np[1	
				INSPEC				· · · · · · · · · · · · · · · · · · ·
1.	Custody	seals on shin	ping container int			Yes / 1	Noi 1 N/A	[]
2.	-		ping container da		ਰ ?	Yes ()	No[] N/A	(1)
3.			ple containers int			Yes[]	NO[] N/A NO[] N/A	[X]
4.			ple containers da		d? ` 。	Yes[]	ND[] N/A	(x)
5.	Packing	material is:		1		Wet[]		
6.	Number	of samples in	shipping contain	ner:	Sample Matr	ix W		•
7.	Number	of containers	per sample:		(Or see CoC _)		
8.	Samples	are in correc	t container		Yes (/)			
9.		ork agrees with					*	
10.					Rad labels []	•	,	
11.	Samples	s are: In gr	and condition K) Leakin	g [] Broken	Container []	Missing []	
12.				reserved [) pH 6-7 Pm	eservative		
13.	Describ	e any anomali	ES ;					
l .								
14.	Was P.	M. notified of,	any anomalies?	Yes	; [,] No [] Date		
14.		M	any anomalies?	Yes Date:	No (In 30		
15.	Inspect	ed by	they		Tim	e: 030		
15.		M	7		18/18/11	In 30	ion Champer mR/hr	wine
15. Cus Sam	Inspect	Beta/Gamma	Lo Chamber	Date:	Customer Tim	E: 030	Ion Champer	wipe
15. Cus Sam	Inspect	Beta/Gamma	Lo Chamber	Date:	Customer Tim	E: 030	Ion Champer	wipe
15. Cus Sam	Inspect	Beta/Gamma	Lo Chamber	Date:	Customer Tim	E: 030	Ion Champer	wipe
15. Cus Sam	Inspect	Beta/Gamma	Lo Chamber	Date:	Customer Tim	E: 030	Ion Champer	wine
15. Cus Sam	Inspect	Beta/Gamma	Lo Chamber	Date:	Customer Tim	E: 030	Ion Champer	wipe
15. Cus Sam	Inspect	Beta/Gamma	Lo Chamber	Date:	Customer Tim	E: 030	Ion Champer	wipe
15. Cus Sam	Inspect	Beta/Gamma	Lo Chamber	Date:	Customer Tim	E: 030	Ion Champer	wipe
15. Cus Sam	Inspect	Beta/Gamma	Lo Chamber	Date:	Customer Tim	E: 030	Ion Champer	wipe
15. Cus Sam	Inspect	Beta/Gamma	Lo Chamber	Date:	Customer Tim	E: 030	Ion Champer	wipe
15. Cus Sam	Inspect	Beta/Gamma	Lo Chamber	Date:	Customer Tim	E: 030	Ion Champer	wipe
15. Cus Sam	Inspect	Beta/Gamma	Lo Chamber	Date:	Customer Tim	E: 030	Ion Champer	wipe
15. Cus Sam Au Si	Inspect	Beta/Gamma com 250	lon Chamber mR/hr	Date:	Customer Sample No.	E: 030 Beta/Gamma LDM	Ion Chamber mR/hr	wipe
15. CUE SATT	Inspect	Beta/Gamma com LSD	Ion Chamber mR/hr	Date:	Customer Sample No.	E: 030 Beta/Gamma LDM	Ion Chamber mR/hr	wipe
15. Cus Sam Au Si	Inspectioner bie No. kupus	Beta/Gamma com 250	ion Chamber mR/hr	Wine	Customer Sample No.	E: 030 Beta/Gamma LDM	Ion Chamber mR/hr	wipe